

WO 2005/013867

PCT/BE2004/000112

CLAIMS

1. Device for treating breathing problems, comprising a shaped part fitting onto the teeth of the lower jaw, a shaped part fitting onto the teeth of the upper jaw, and adjustable connecting means between the upper and lower shaped part for forward/backward and upward/downward adjustment of the upper shaped part relative to the lower shaped part, **characterized in that** one of the shaped parts is provided at the front with a slide mechanism consisting of a slide element which is slidable laterally to a limited extent along a guide element, and that the adjustable connecting means are fixedly connected to the other shaped part on one side and to the slide element on the other.
- 15 2. Device as claimed in claim 1, **characterized in that** the dimensions of the guide element and the slide element are closely-sized transversely of the guiding direction.
3. Device as claimed in either of the foregoing claims, **characterized in that** the guide element is a rod mounted between two points of the one shaped part, and the slide element is a hollow tube slidable around this rod.
- 20 4. Device as claimed in any of the foregoing claims, **characterized in that** the length of the hollow tube is chosen as a function of the desired maximum lateral displacement.
- 25 5. Device as claimed in claim 4, **characterized in that** the slide element can be snapped onto the guide element.
6. Device as claimed in any of the foregoing claims, **characterized in that** the adjustable connecting means comprise a substantially vertical adjusting screw with double screw thread for upward/downward adjustment of the upper shaped part relative to the lower shaped part, which adjusting screw co-acts on one outer end with a first threaded bore connected via a connecting piece to the slide

WO 2005/013867

PCT/BE2004/000112

10

element, and which co-acts on its other outer end with a second threaded bore provided on the front side of the other shaped part, wherein a rotation of the adjusting screw changes the distance between the lower and upper threaded 5 bores.

7. Device as claimed in claim 6, **characterized in that** the adjusting screw is provided substantially in the middle with an encircling flange with radially directed openings in which a rod fits for the purpose of turning the adjusting 10 screw through rotation of the rod.

8. Device as claimed in claim 6 or 7, **characterized in that** the vertical adjusting screw is enclosed on both sides by telescopically acting tubes.

9. Device as claimed in any of the claims 1-5, 15 **characterized in that** the adjustable connecting means comprise a substantially vertical adjusting screw and a threaded bore co-acting therewith for the upward/downward adjustment of the upper shaped part relative to the lower shaped part.

20 10. Device as claimed in any of the foregoing claims, **characterized in that** the connecting piece is provided with a horizontal adjusting screw for forward/backward adjustment of the one shaped part relative to the other, which horizontal adjusting screw co-acts on one outer end with a threaded 25 passage mounted on the slide element.

11. Device as claimed in claim 10 and any of the claims 6-8, **characterized in that** the horizontal adjusting screw is provided on its other outer end with a screw head, and that the connecting piece is provided with a horizontally oriented 30 hole through which the horizontal adjusting screw extends.

12. Device as claimed in any of the foregoing claims, **characterized in that** the adjustable connecting means are at least partially received in a housing which is rounded on the

WO 2005/013867

PCT/BE2004/000112

11

outside.